Amendment to the Claims:

1. (Original) A fabric electrode arrangement exhibiting a first surface for application to the skin of a mammal, wherein said fabric electrode arrangement comprises at least one portion of material being substantially impermeable to moisture, said material being located on said first surface.

2. (Original) An electrode arrangement in accordance with claim 1 wherein said at least one portion of material is located directly on said first surface.

3. (Canceled)

4. (Previously Presented) An electrode arrangement in accordance with claim 1 wherein said material is mechanically flexible.

5. (Previously Presented) An electrode arrangement in accordance with claim 1 wherein said material is silicone rubber loaded with conductive material.

6-9. (Canceled)

10. (Previously Presented) An electrode arrangement in accordance with claim 1 wherein said electrode is integral with a garment.

11-12. (Canceled)

13. (Currently Amended) A garment comprising:

a wearable article of clothing; and

a fabric electrode arrangement exhibiting a first surface for application to the skin of a mammal wearing the article of clothing, ~~wherein~~ the fabric electrode being disposed on an inner surface of the article of clothing with the first surface facing inward, said fabric electrode arrangement ~~comprises~~ including:

at least one portion of material ~~being~~ which is substantially impermeable to moisture, said moisture impermeable material being located on said first surface; and

an electrically conductive, moisture permeable fabric portion located on the first surface around the moisture impermeable portion.

14. (Canceled)

15. (New) An electrode arrangement comprising:

an electrically conductive fabric portion with a first surface which contacts a wearer's skin directly;

a moisture impermeable, electrically conductive layer affixed to the first surface of the electrically conductive fabric to contact the wearer's skin directly, such that the moisture impermeable layer promotes perspiration which reduces skin-to-electrode contact resistance and such that the electrically conductive fabric absorbs and dissipates perspiration while permitting the skin to breathe to promote user comfort.

16. (New) The electrode arrangement in accordance with claim 15 wherein the moisture impermeable, electrically conductive layer contacts the skin directly with only perspiration functioning to reduce the skin-to-electrode contact resistance.

17. (New) The electrode arrangement in accordance with claim 15 wherein the moisture impermeable, electrically conductive layer and the electrically conductive fabric are both flexible.

18. (New) The electrode arrangement in accordance with claim 15 wherein the moisture impermeable, electrically conductive layer includes silicone rubber filled with a conductive material.

19. (New) The electrode arrangement in accordance with claim 18 wherein the conductive material includes one of carbon and silver.

20. (New) The electrode arrangement in accordance with claim 15 wherein the electrically conductive fabric is knitted or woven.

21. (New) The electrode arrangement in accordance with claim 20 wherein the electrically conductive fabric is knitted or woven from electrically conductive fibers and non-conductive fibers.

22. (New) A wearable article comprising:
a garment made of non-electrically conductive fabric; and
one or more electrode arrangements in accordance with claim 15.

23. (New) A textile article comprising:
a non-electrically conductive fabric; and
one or more electrode arrangements in accordance with claim 15.

24. (New) The garment in accordance with claim 13 wherein the moisture impermeable portion is electrically conductive and flexible.

25. (New) The garment in accordance with claim 24 wherein the fabric electrode arrangement is free of electrically conductive gel with only perspiration induced by the moisture impermeable layer acting as a sole skin-to-electrode contact resistance reducing agent.